Author Index

Ametani, A., 31

Babu Ram, 71
Baidas, H. M., 235
Balasubramanian, R., 71
Bou-Rabee, M. A., 173

Canepa, A., 99
Cheng, C. H., 129

Delfino, B., 99
Duran, E. G., 119

El-Dewieny, R. M., 59
El-Marsafawy, M., 185

Farghal, S. A., 59
Ferreira, L. A. F. M., 241

Girgis, A. A., 1, 173
Grande-Moran, C., 109

Hamdan, A. M. A., 165
Hamdan, H. M. A., 165
Hamed, M., 49
Harley, R. G., 119
Hsu, Y. Y., 129
Huang, C. L., 139
Huang, S. J., 191
Huang, Y. W., 139

Invernizzi, M., 99

Lin, C. E., 139, 191
Li Wenyuan, 225
Lund, P., 147

Makram, E. B., 1, 119, 173
Mathur, R. M., 11
Matsuura, K., 89
Motoyama, H., 31
Mudrončík, D., 203
Müller, P., 203
Muždeka, G., 209

Nagaoka, N., 31
Natarajan, R., 197
Novotný, M., 203

Opoku, G., 235
Ostojić, D., 209

Pinceti, P., 99
Püttgen, H. B., 241

Ramanathan, R., 197
Roshdy Abdel Aziz, M., 59

Sharaf, A. M., 11
Shultz, R. D., 219
Smith, R. A., 219
Sobierajski, M., 21
Somuah, C. B., 235

Takahashi, K., 11
Takasaki, M., 11
Tripathy, S. C., 71

Weedy, B. M., 43, 85
Witthuhn, L. L., 219

© Elsevier Sequoia/Printed in The Netherlands

Subject Index

Bad data substitution
  suspected, using search emulation procedure, 219

Cable
  polyimide taped air impregnated, partial discharges in, 85
  three-core distribution, and splice, prediction of temperatures in, with load changes, 43
Coherent generators
  model-based identification and limited grouping of, for dynamic equivalents, 209
Commutation overlap effects
  in HVDC terminal model for power flow studies, accurate simulation of, 185
Corona effects
  lightning surge calculations including, using two-conductor model, 31
Coupling measures
  between modes and state variables and subsynchronous resonance, 165

D-curve computation
  new algorithm for, 203
Damping
  of torsional oscillations of nuclear generators by using firing delay angle modulation of HVDC schemes, 11
Decision tree technique
  generation expansion planning using, 59
Decoupled load referenced power flows, 197
Discharges
  partial, in polyimide taped air impregnated cable, 85
Distribution cable
  three-core, and splice, prediction of temperatures in, with load changes, 43
Dynamic equivalents
  modal-based identification and limited grouping of coherent generators for, 209

Economic power dispatch
  real-time, with security, successive linear programming model for, 225

Fault(s)
  series, in six-phase electric power systems, 109
Faulted long transmission line
  electromagnetic transients due to single pole tripping of, 1
Firing delay angle modulation
  of HVDC schemes, damping torsional oscillations of nuclear generators by using, 11

Generation expansion planning
  using decision tree technique, 59

Lightning surge calculations
  including corona effects using two-conductor model, 31
Load flow
  probabilistic, multiple solution analysis of, 21
Load flow calculation
  of distribution system with microcomputer implementation, 139
Load referenced power flows
  decoupled, 197
Load rejection overvoltages
  on series compensated line with static shunt compensator, digital computer method to evaluate, 71

Modes and state variables
  coupling measures between, and subsynchronous resonance, 165

Nuclear generators
  damping torsional oscillations of, by using firing delay angle modulation, 11

Oscillations
  torsional, of nuclear generators, damping of, by using firing delay angle modulation of HVDC schemes, 11
Overvoltages
  load rejection, on series compensated line with static shunt compensator, digital computer method to evaluate, 71

Performance index evaluation
  adjoint network sensitivity based, for large-scale contingency events, 241
Planning
  generation expansion, using decision tree technique, 59
Power control
  real and reactive, optimal corrective rescheduling, 235
Power dispatch
  real-time economic, with security, successive linear programming model for, 225
Power flow studies
  accurate simulation of commutation overlap effects in HVDC terminal model for, 185
Probabilistic load flow
  multiple solution analysis of, 21

Real-time economic power dispatch
  with security, successive linear programming model for, 225
Rescheduling
  optimal corrective, for real and reactive power control, 235

© Elsevier Sequoia/Printed in The Netherlands

Series compensated line
with static shunt compensator, digital computer method to evaluate load rejection overvoltages on, 71
Series faults
in six-phase electric power systems, 109
SETPOS program system
simulation of electric transients in power stations, 147
Six-phase electric power systems
series faults in, 109
State estimation
VLSI technique for enhancement of, in power systems, 191
State variables and modes
coupling measures between, and subsynchronous resonance, 165
Static VAR compensator
design of, using model reference adaptive control, 129
Subsynchronous resonance
coupling measures between modes and state variables and, 165
Successive linear programming model
for real-time economic power dispatch with security, 225
Superconducting magnet–inverter/converter unit
to interconnected local power area, application of, 89

Tap changing transformers
automatic, voltage regulation via: evaluation of voltage stability conditions, 99
Torsional oscillations
of nuclear generators, damping of, by using firing delay angle modulation of HVDC schemes, 11
Transformers
automatic tap changing, voltage regulation via: evaluation of voltage stability conditions, 99
Transient(s)
electric, in power stations, simulation of — SETPOS program system, 147
electromagnetic, due to single pole tripping of faulted long transmission line, 1
switching, in untransposed transmission lines, wave modal technique for, 49
Transient stability
of synchronous and asynchronous machines, effect of unbalanced networks on, 119
Tripping
single pole, of faulted long transmission line, electromagnetic transients due to, 1

Unbalanced distribution systems
during open conductors and/or shunt fault conditions, three-phase modelling of, using bus impedance matrix, 173
Unbalanced networks
effect of, on synchronous and asynchronous machine transient stability, 119
Untransposed transmission lines
wave modal technique for switching transients in, 49

VLSI technique
for state estimation enhancement in power systems, 191
Voltage regulation
via automatic tap changing transformers: evaluation of voltage stability conditions, 99